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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,814	07/07/2004	Lars Lidgren	CU-3809 RJS	7178
26530	7590	09/18/2008		
LADAS & PARRY LLP			EXAMINER	
224 SOUTH MICHIGAN AVENUE			CATTUNGAL, SANJAY	
SUITE 1600				
CHICAGO, IL 60604			ART UNIT	PAPER NUMBER
			3768	
			MAIL DATE	DELIVERY MODE
			09/18/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/500,814	<b>Applicant(s)</b> LIDGREN ET AL.
	<b>Examiner</b> SANJAY CATTUNGAL	<b>Art Unit</b> 3768

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 18 March 2008.
- 2a) This action is FINAL.      2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-29 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 07 July 2004 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-166/08)  
 Paper No(s)/Mail Date 03/18/08
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date \_\_\_\_\_
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments with respect to claims 1-29 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 1-5 and 20-29, are rejected under 35 U.S.C. 103(a) as being unpatentable over European Patent No. EP 0 668 052 B1 to Fujio et al. in view of U. S. Patent No. 6,599,288 to Maguire et al.**

4. Regarding **Claim 1 and 20-29**, Fujio teaches a device for mini-invasive ultrasound treatment of an object, wherein at least one therapeutic ultrasound transducer (Fig. 3 element 20a) is arranged for treatment of the object (Fig. 3 element 54) by generating an ultrasonic field (Fig. 3 and Abstract), the temperature focus of which is located in the object for heating thereof (Abstract and Fig. 3); wherein the therapeutic ultrasound transducer comprises a probe characterized in that said transmitter element (Fig. 3 element 22a) is arranged in a rear portion (Fig. 3 element 22a) and is configured to be thermally insulating (Fig. 3 element 52), whereby the transmitter element does not heat or substantially not heat the front portion during operation. (Fig. 3 element 52)

Fujio does not expressly teach the use of a ultrasonic probe for minimally invasive procedures, for ablating tissues inside the body.

Maguire disclose the use of a ultrasonic probe for treatment of tissues inside the body. (Abstract)

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Fujio with a setup such that the ultrasonic probe is used for minimally invasive procedures for ablating tissues inside the body as taught by Maguire since such a setup would result in the device being capable of minimally invasive procedures and increase the range of use for the device.

5. Regarding **Claims 2 and 5**, Fujio teaches the use of a focusing device for focusing the ultrasound generated by the transmitter element. (Fig. 3 element 20a)

6. Regarding **Claims 3 and 4**, Fujio teaches focusing ultrasound waves in the tissue and hence it would be inherent that the focus range falls withing 0.5 - 20 centimeters. (Fig. 3)

7. **Claims 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over European Patent No. EP 0 668 052 B1 to Fujio et al. in view of U. S. Patent No. 6,599,288 to Maguire et al. further in view of U. S. Patent No. 5,327,890 to Matura et al.**

8. Regarding **Claims 6-10**, Fujio in view of Maguire teach all of the above claimed limitations but do not expressly teach the use of an optical navigation device using a X-ray device and camera.

Matura teaches the use of an optical navigation device using a X-ray device and camera. (Abstract and Fig. 1)

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Fujio and Maguire with an optical navigation device as taught by Matura since such a setup would result in a location system which would precisely locate the tissue/target region to be treated/ablated.

9. **Claims 11-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over European Patent No. EP 0 668 052 B1 to Fujio et al. in view of U. S. Patent No. 6,599,288 to Maguire et al. in view of U. S. Patent No. 5,327,890 to Matura et al. further in view of U. S. Publication No. 2005/0020918 to Wilk et al.**

10. Regarding **claims 11-19** Fujio, Maguire, and Matura teach all of the above claimed limitations but do not expressly teach the use of a CT Scan system for optical navigation.

Wilk teaches the use of a CT scan system for optical navigation. (Abstract)

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Fujio, Maguire, and Matura with an CT navigation device as taught by Wilk since such a setup would result in a location system which would precisely locate the tissue/target region to be treated/ablated as the precision and quality of images in CT is much more greater than that of x-ray.

11. Regarding Claim 16, use of metallic tantalum balls are well known within the X-ray arts and it would have been obvious to use them to mark or reference.

***Conclusion***

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12. Applicant's submission of an information disclosure statement under 37 CFR 1.97(c) with the fee set forth in 37 CFR 1.17(p) on 03/18/08 prompted the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 609.04(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

13. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SANJAY CATTUNGAL whose telephone number is (571)272-1306. The examiner can normally be reached on 9:30 - 5:00 pm.

15. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on (571)272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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16. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brian L Casler/  
Supervisory Patent Examiner, Art  
Unit 3737

SPC